

M	
Maint	maintenance
Max	maximum
MB	metal beam
MBB	metal beam barrier
MBGR	metal beam guard railing
Med	median
MH	manhole
Min	minimum
Misc	miscellaneous
Misc I & S	miscellaneous iron and steel
Mkr	marker
Mod	modified,
	modify
Mon	monument
MP	metal plate
MPGR	metal plate guard railing
MR	movement rating
MSE	mechanically stabilized embankment
Mtl	material

N	
N	north
NB	northbound
No.	number (must have period)
Nos.	numbers (must have period)
NPS	nominal pipe size
NS	near side
NTS	not to scale

O	
Oblr	obliterate
OC	overcrossing
OD	outside diameter
OF	outside face
OG	original ground
OGAC	open graded asphalt concrete
OH	overhead
O-O	out to out
Opp	opposite

P	
p	page
PAP	perforated aluminum pipe
PB	pull box
PC	point of curvature,
	precast
PCC	point of compound curve,
	portland cement concrete
PCP	perforated concrete pipe,
	prestressed concrete pipe
PCVC	point of compound vertical curve
Ped	pedestrian
Ped OC	pedestrian overcrossing
Ped UC	pedestrian undercrossing
Perm Mtl	permeable material
PG	profile grade

P continued	
PI	point of intersection
PJP	partial joint penetration
PL, PL	plate
P/L	property line
PM	post mile,
	time from noon to midnight
PN	paving notch
POC	point of horizontal curve
POT	point of tangent
POVC	point of vertical curve
PP	pipe pile,
	plastic pipe,
	power pole
PPL	preformed permeable liner
PPP	perforated plastic pipe
PRC	point of reverse curve
PRF	pavement reinforcing fabric
PRVC	point of reverse vertical curve
PS&E	plans, specifications and estimates
PS, P/S	prestressed
PSP	perforated steel pipe
PT	point of tangency
PVC	polyvinyl chloride
Pvmt	pavement

Q	
Qty	quantity

R	
R	radius
R & D	remove and dispose
R & S	remove and salvage
R/C	rate of change
RCA	reinforced concrete arch
RCB	reinforced concrete box
RCP	reinforced concrete pipe
RCPA	reinforced concrete pipe arch
Rd	road
Reinf	reinforced,
	reinforcement,
	reinforcing
Rel	relocate
Repl	replacement
Ret	retaining
Rev	revised
Rdwy	roadway
RM	road-mixed
RP	radius point,
	reference point
RR	railroad
RSP	rock slope protection
Rt	right
Rte	route
RW	redwood,
	retaining wall
R/W	right of way
Rwy	railway

S	
S	south,
	supplement
SAE	structure approach embankment
Salv	salvage
SAPP	structural aluminum plate pipe
SB	southbound
SC	sand cushion
SCSP	slotted corrugated steel pipe
SD	storm drain
Sec	second,
	section
Sep	separation
SG	subgrade
Shld	shoulder
Sht	sheet
Sim	similar
SL	station line
SM	selected material
Spec	special,
	specifications
SPP	slotted plastic pipe
SS	slope stake
SSBM	strap and saddle bracket method
SSD	structural section drain
SSPA	structural steel plate arch
SSPP	structural steel plate pipe
SSPPA	structural steel plate pipe arch
SSRP	steel spiral rib pipe
St	street
Sta	station
STBB	single thrie beam barrier
Std	standard
Str	structure
Surf	surfacing
SW	sidewalk,
	sound wall
Swr	sewer
Sym	symmetrical
S4S	surface 4 sides

T	
T	semi-tangent
TAB	tablet
Tan	tangent
TBB	thrie beam barrier
Tbr	timber
TC	top of curb
TCB	traffic control box
Tel	telephone
Temp	temporary
TG	top of grade
Tot	total
TP	telephone pole
TPB	treated permeable base
TPM	treated permeable material
Trans	transition

T continued	
TS	transverse
	traffic signal,
	tubular steel
Typ	typical

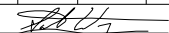
U	
UC	undercrossing
UD	underdrain
UON	unless otherwise noted
UP	underpass

V	
V	valve,
	design speed
Var	variable
VC	vertical curve
VCP	vitrified clay pipe
Vert	vertical
Via	viaduct
Vol	volume

W	
W	west,
	width
WB	westbound
WH	weep hole
WM	wire mesh
WS	water surface
WSP	welded steel pipe
Wt	weight
WV	water valve
WW	wingwall
WWLOL	wingwall layout line

X	
X Sec	cross section
Xing	crossing

Y	
Yr	year
Yrs	years

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
 REGISTERED CIVIL ENGINEER May 1, 2006 PLANS APPROVAL DATE No. 58698 Exp. 12-31-06 CIVIL STATE OF CALIFORNIA					
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UNITS OF MEASUREMENT

Some of the symbols for United States Customary units of measurement used in the Project Plans Quantity Summaries and in the Engineer's Estimate are as follows:

TABLE A

Symbol Used	Definitions
EA	each
LB	pound(s)
ACRE	acre
GAL	gallon
LF	linear foot
SQFT	square foot
CF	cubic foot
SQYD	square yard
CY	cubic yard
STA	100 feet
TAB	tablet
TON	2,000 pounds

Some of the symbols for United States Customary units of measurement used for physical properties of materials are as follows:

TABLE B

Symbol Used	Definitions
ksi	kips per square inch
ksf	kips per square foot
psi	pounds per square inch
psf	pounds per square foot
lb/ft ³	pounds per cubic foot

Other commonly used symbols for United States Customary units of measurement:

TABLE C

Symbol Used	Definitions
Ø	nominal diameter
lb	pound
kip	1,000 pounds
cal	calorie
Ft, ft	foot or feet

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

A10B